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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF CHEMISTRY AND SOILS
INSECTICIDE DIVISION

Patent List No.10

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A LIST OF UNITED STATES PATENTS

Issued from 1917 to 1933 inclusive

relating to

INSECT BARRIERS FOR USE ON TREE TRUNKS

Compiled by

R. C. Roark

Washington, D.C.
August 1934

A LIST OF UNITED STATES PATENTS ISSUED FROM 1917 TO 1933, INCLUSIVE, RELATING TO INSECT BARRIERS FOR USE ON TREE TRUNKS.

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R. C. Roark

Insecticide Division, Bureau of Chemistry and Soils

Of the 15 devices mentioned in this list, 7 provide an insecticidal liquid (e.g. oil) in a trough or on a wick, 4 rely on a sticky material, 2 on screening, 1 on wool and 1 on betanaphthol dissolved in oil, for preventing caterpillars and other insects from crawling up tree trunks.

Every effort has been made by the compiler to make this list of patents complete and no discrimination is intended against any patent mention of which is inadvertently omitted.

The Department of Agriculture assumes no responsibility for the merits or workableness of any of the patents, nor does it recommend any of the inventions listed.

1,264,862 (Apr. 30, 1918; appl. June 20, 1917). TREE GUARD OR PROTECTOR. John N. Roberts, Lawrence, Kans. - This device consists of a collar made of sand and cement which is molded about the trunk of a tree. A gutter in the collar is intended to hold a liquid insecticide. This barrier prevents moths, worms, and cats from climbing the tree.

1,293,563 (Feb. 4, 1919; appl. Sept. 18, 1918). INSECT TRAP. Edouard H. Siegler, Washington, D.C. - This device consists of a burlap band held in place around a tree trunk by a strip of wire screen (12 meshes per linear inch) 5 inches wide. The codling moth larva spins its cocoon beneath the cloth band and on emerging the moth is unable to pass through the wire screen and is thus trapped.

1,311,001 (July 22, 1919; appl. Jan. 7, 1919). CATERPILLAR CATCHER. John A. Manseau, Becanour, Quebec, Canada. - Caterpillars are prevented from ascending a tree by two wire screen cones, the upper one of which is fitted tightly to the trunk.

1,323,891 (Dec. 2, 1919; June 18, 1918). TREE PROTECTOR. Vincenzo Marsico, Watts, Calif. - This device holds a trough containing crude oil or other suitable liquid about a tree trunk to prevent caterpillars from gaining access to the fruit.

1,345,690 (July 6, 1920; appl. Aug. 18, 1919). TREE PROTECTOR BAND. Elmer G. Perl, Minneapolis, Minn. - This band of canvas or other waterproof material has a lining of cotton batting. After placing about a tree trunk sticky substance is applied to the outside of the band.

1,415,134 (May 9, 1922; appl. Mar. 21, 1921). TREE PROTECTOR. David Williams, New Orleans, La. - This downwardly flaring metal shield contains a gutter in which is placed a band of lamp wick impregnated with kerosene or viscid oil. The wicking is kept supplied with oil by capillary attraction from a reservoir.

1,496,720 (June 3, 1924; appl. Feb. 8, 1923). TREE PROTECTOR. Vincenzo Marsico, Watts, Calif. - This device consists of a trough which surrounds the tree trunk and is protected from rain by a guard plate. Caterpillars crawling into the trough are killed by crude oil.

1,562,729 (Nov. 24, 1925; appl. Dec. 24, 1924). TREE GUARD. James B. Anderson, Grandview, Wash. - This device consists of a trough surrounding the tree and in which petroleum or other liquid is placed.

1,579,534 (Apr. 6, 1926; appl. Feb. 12, 1923; Renewed Sept. 15, 1925). TREE PROTECTOR. Louis R. Hibbard and Reni S. Berry, Los Angeles, Calif. - This device consists of a sheet metal trough surrounding a tree and containing any suitable oil, crude or otherwise.

1,674,118 (June 19, 1928; appl. Apr. 19, 1927). TREE COLLAR. Samuel W. Merrick, Seabeck, Wash. - A downwardly flaring sheet metal collar is placed around a tree trunk. A packing of oakum or other suitable material is placed between the surface of the trunk and the edges of the collar at the inner ends of the corrugations. A coating of asphaltum or other suitable sticky adhesive is then applied to the exposed surfaces of the oakum as well as to the adjacent surfaces of the collar.

1,733,233 (Oct. 29, 1929; appl. Feb. 8, 1928; Renewed May 31, 1929). TREE PROTECTOR. Paul Mörk, Suttons Bay, Mich. - A tree is protected from climbing insects by encircling the trunk with wire covered with wool.

1,790,605 (Jan. 27, 1931; appl. Mar. 19, 1930; in Austria Apr. 15, 1929). LIMED BANDAGE OR RING FOR FRUIT TREES AND THE LIKE. Carl Thorbecke, Nackenheim, Germany. - This device consists of two strips of material such as paper, each of which strip is coated on one side with adhesive material. The two strips are placed face to face so that a double band is formed which has no adhesive material on its external surface.

1,814,471 (July 14, 1931; appl. Sept. 29, 1930). ART OF MAKING VERMIN DESTROYING MATERIAL. William E. Grove, Chambersburg, Pa. - Bands for protecting trees from the codling moth are prepared by dipping a roll of 2 to 3 inches wide corrugated material in a mixture of 1 part beta-naphthol in 6 parts by weight of low grade lubricating oil heated to about 125° C.

1,863,672 (June 21, 1932; appl. July 18, 1931). INSECT BARRIER FOR TREES. Albert T. Repp, Glassboro, N.J. - This barrier for codling moth larvae consists of a trough containing a light grade of oil which is placed around the trunk of the tree. The trough is kept supplied with oil by a wick from a reservoir.

1,874,779 (Aug. 30, 1932; appl. May 31, 1930). TREE GUARD. George W. McChesney, Sr., Rouses Point, and Maxwell C. Northup, Ogdensburg, N.Y. - This downwardly flaring sheet metal tree guard has an annular trough to retain a sticky substance.

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